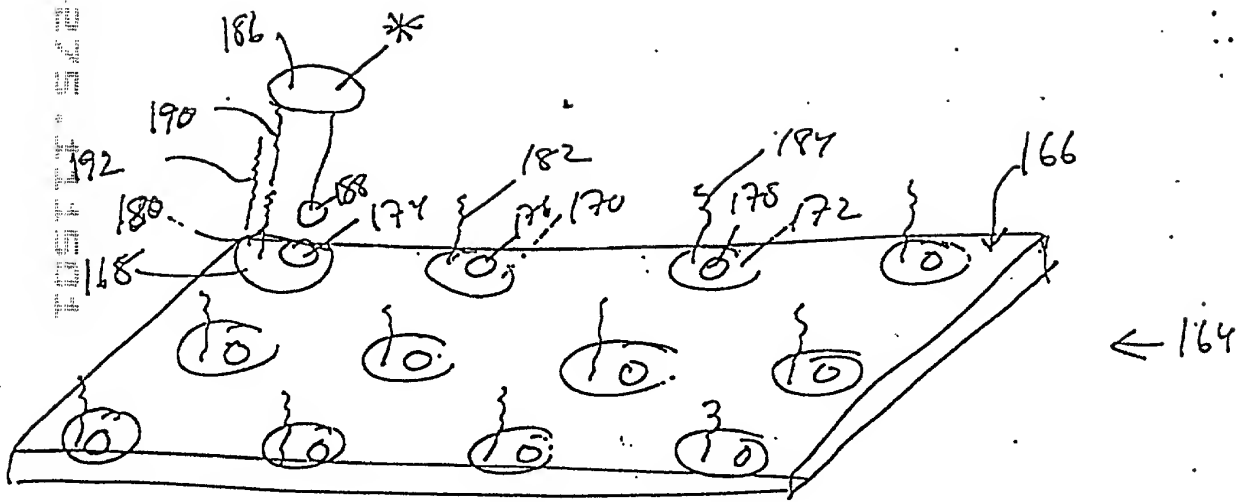


FIG. 1



~~FIG. 47~~

FIG. 2

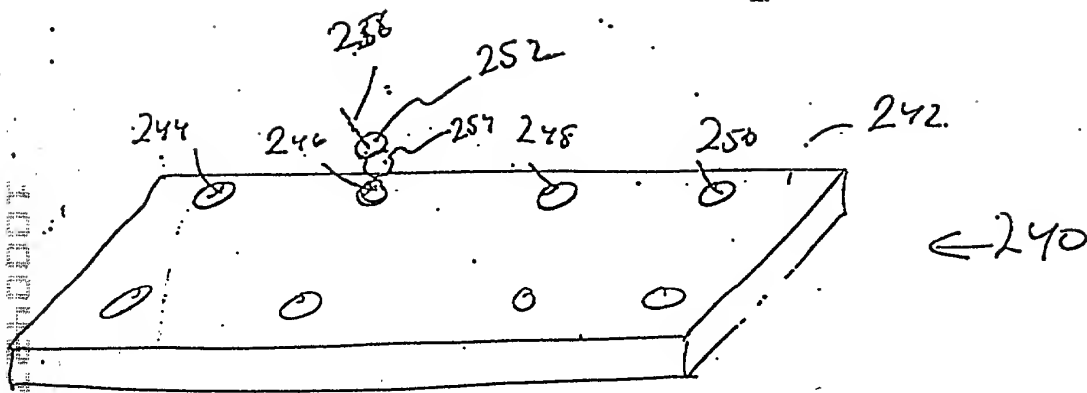


FIG 33

FIG. 3

Add Complementary DNA to "DNA priming region"  
+ sequence using standard PCR methods:

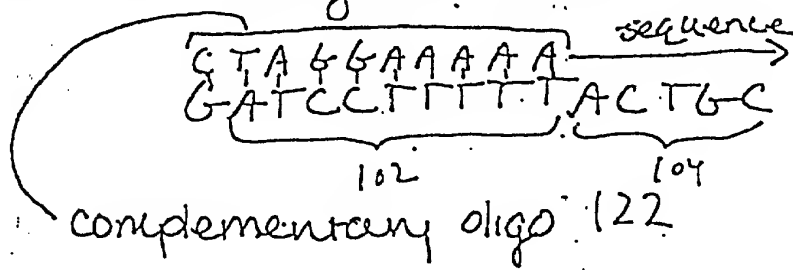
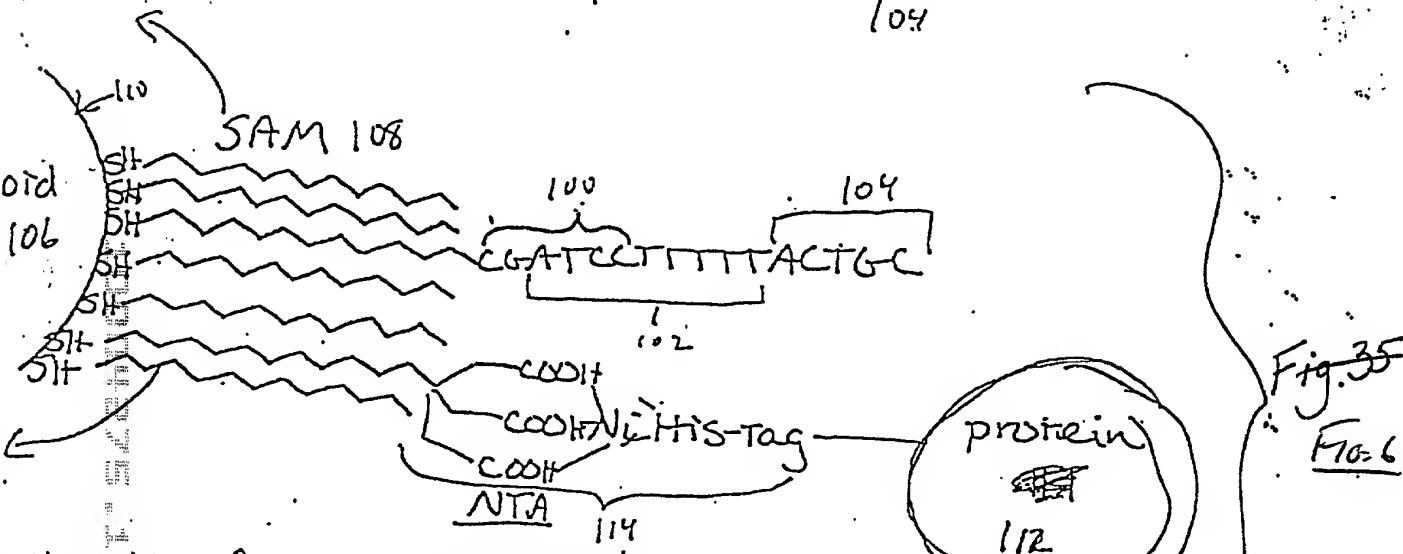
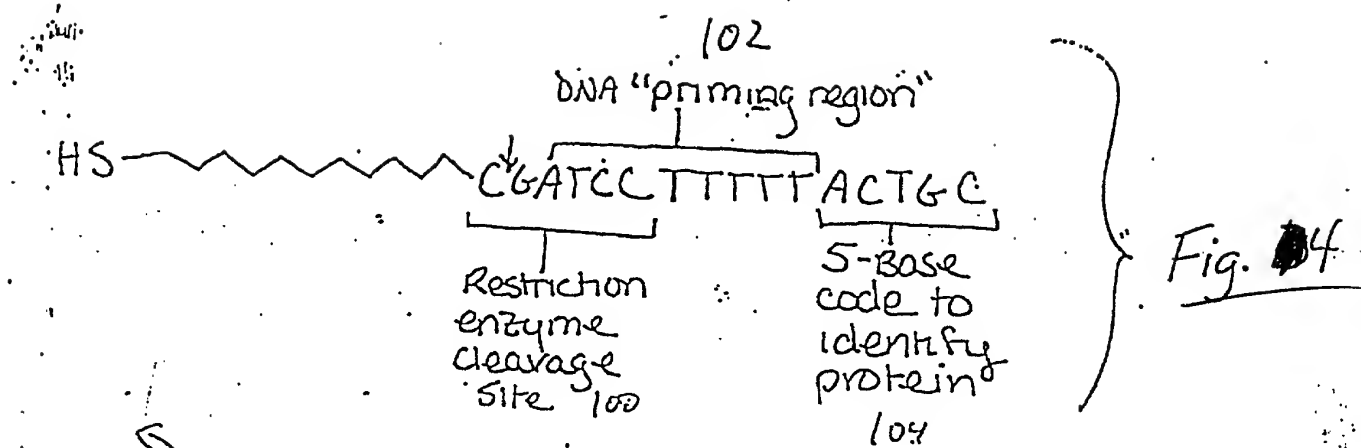


Fig 38  
5

Match up resulting sequence data with records kept that connect protein identity to sequence:

ACTGC = protein # 120  
(species)

104



Oligo thiol is incorporated into SAM along with NTA on colloid. His-tagged protein is attached to colloid via NTA-Ni.

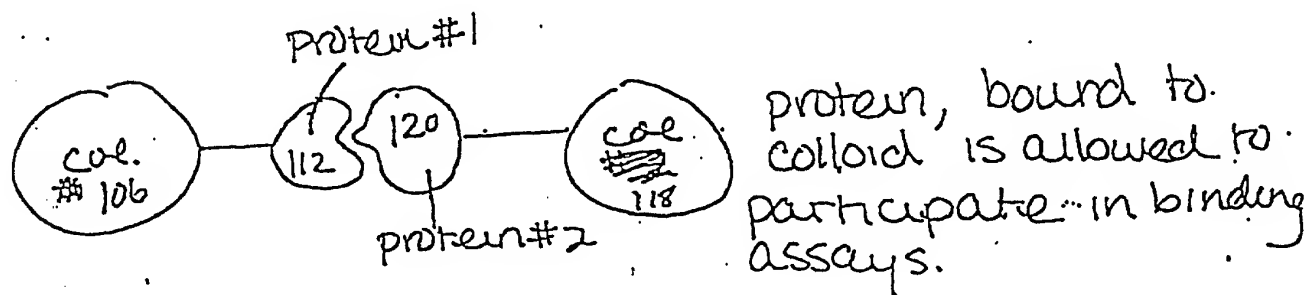


Fig. 36 7.

To uncover the identity of protein after the assays are completed, cleave the DNA portion of the DNA-thiol by addition of a restriction enzyme:

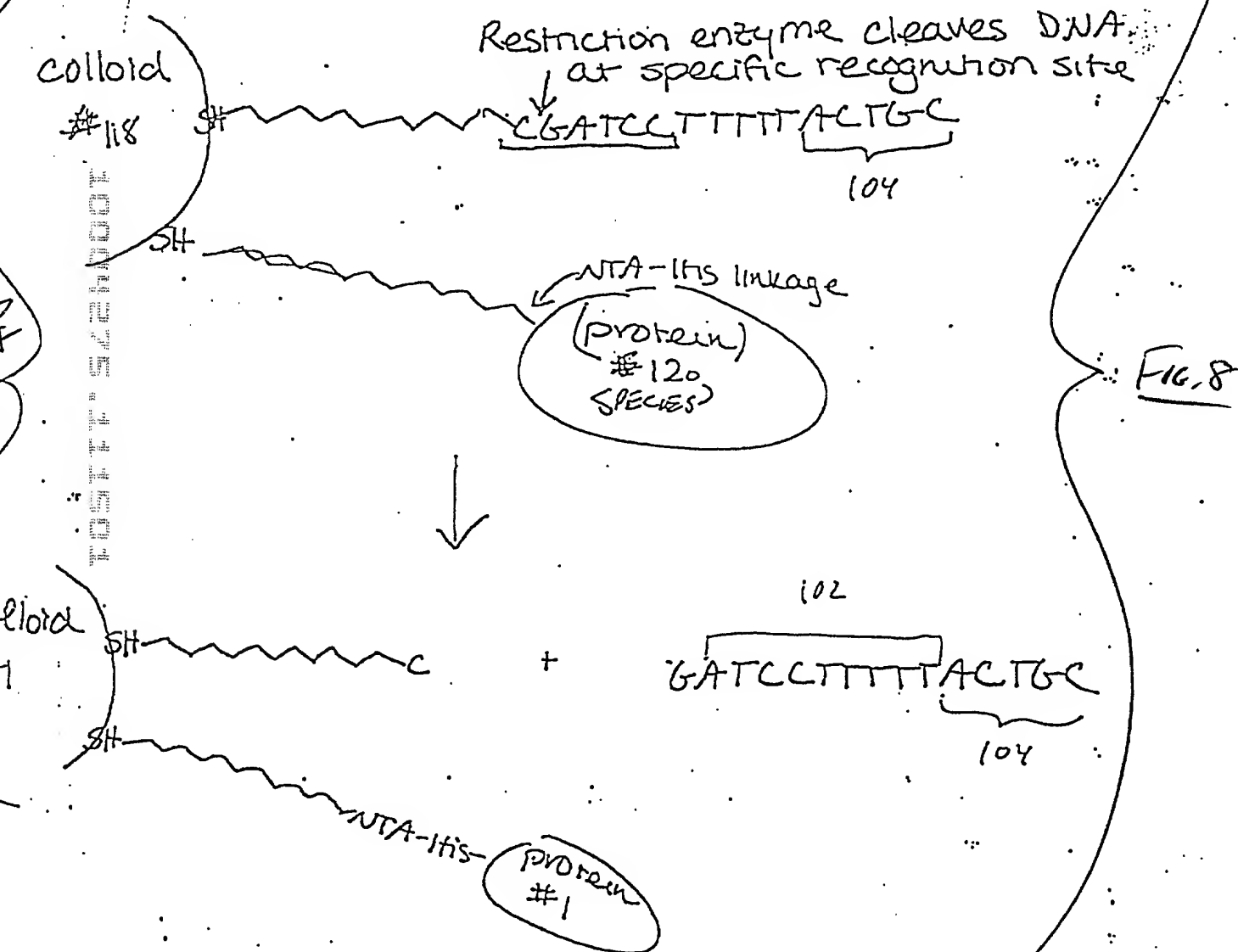
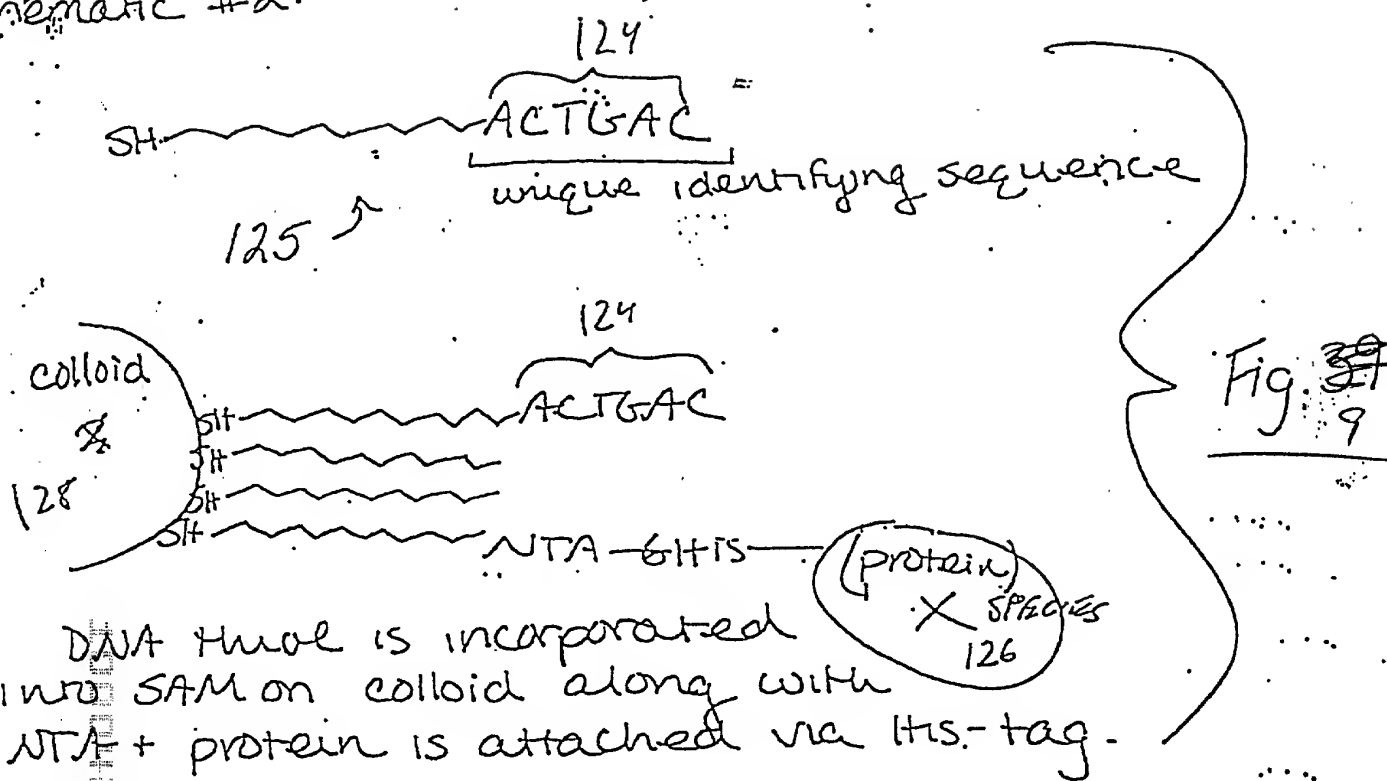
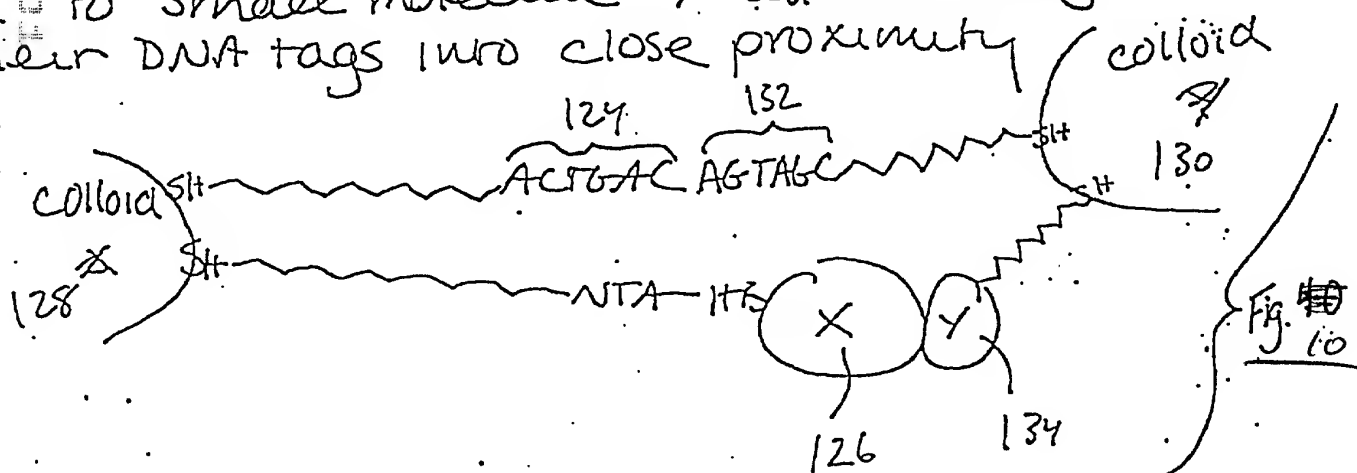


Diagram #2:



colloids bearing proteins or small molecules are allowed to interact. Binding of protein X to small molecule Y ~~allows~~ brings their DNA tags into close proximity



Complementary sequences to ~~function~~ DNA tags are added + allowed to bind.

lig. ~~ident~~

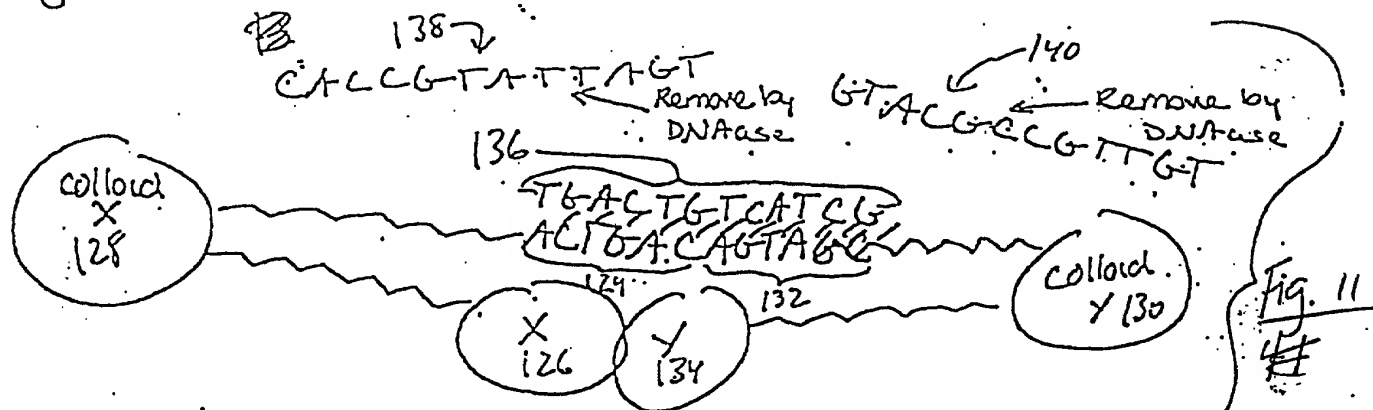


Fig. 11  
4#



Fig. 12  
4#

Single-stranded DNAase is added to remove (or "chew up" any ~~st~~ non-hybridized DNA.

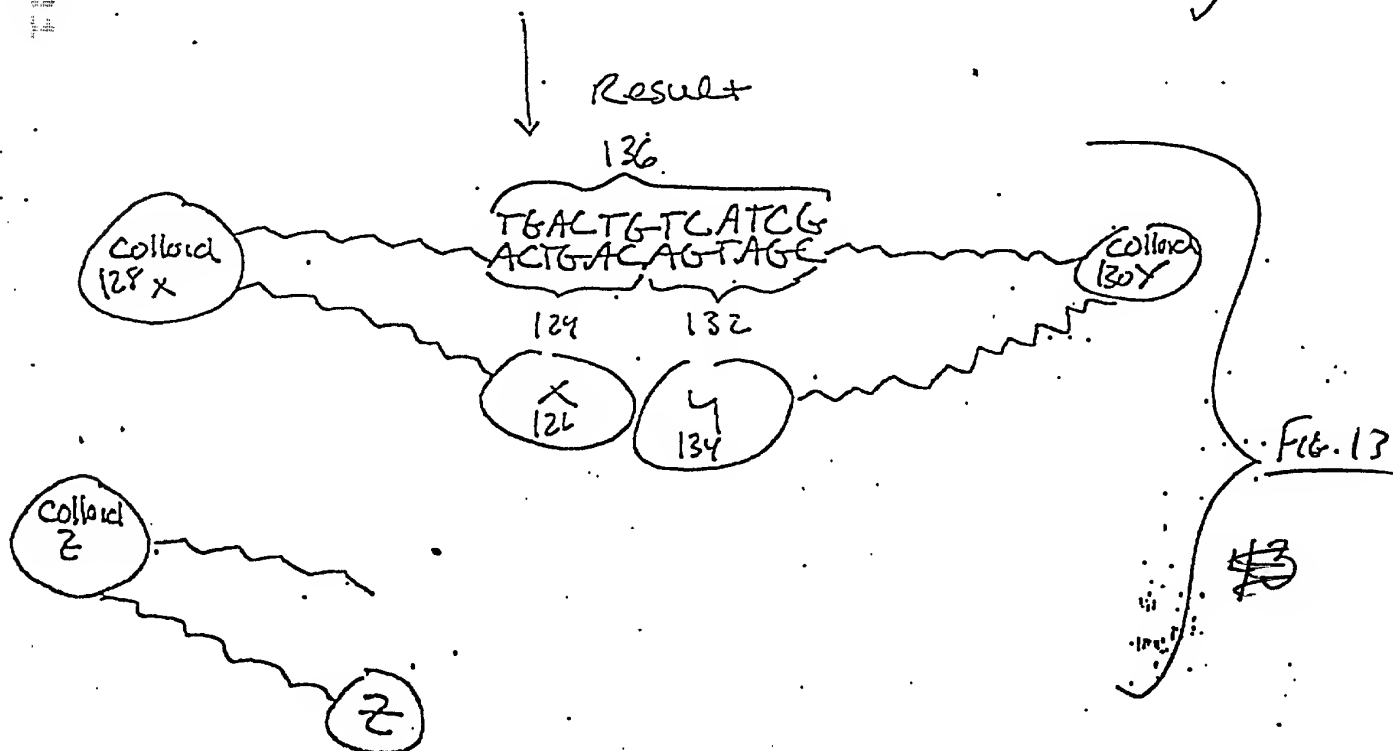
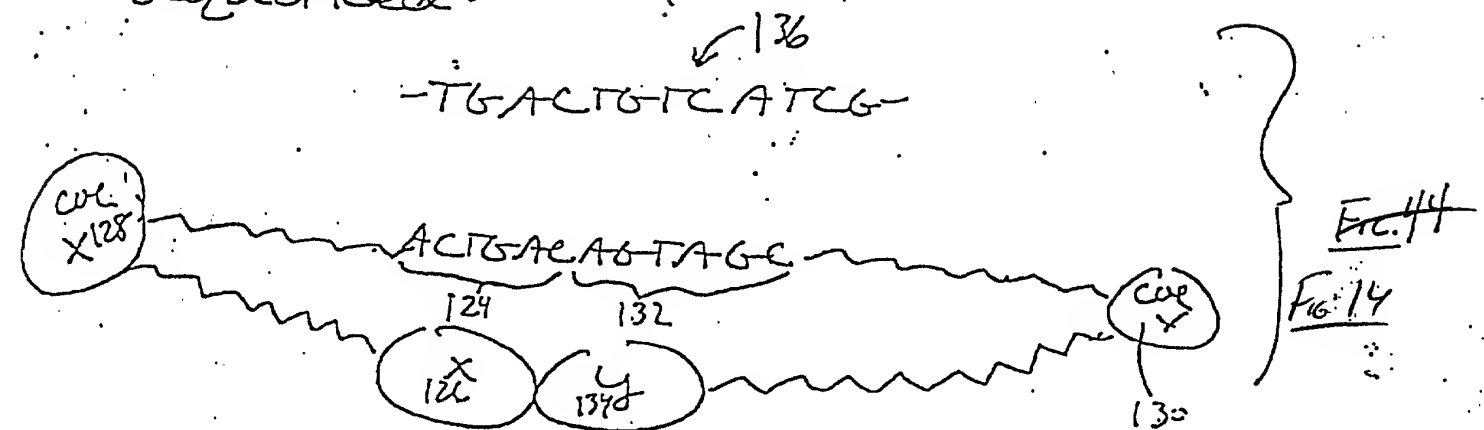


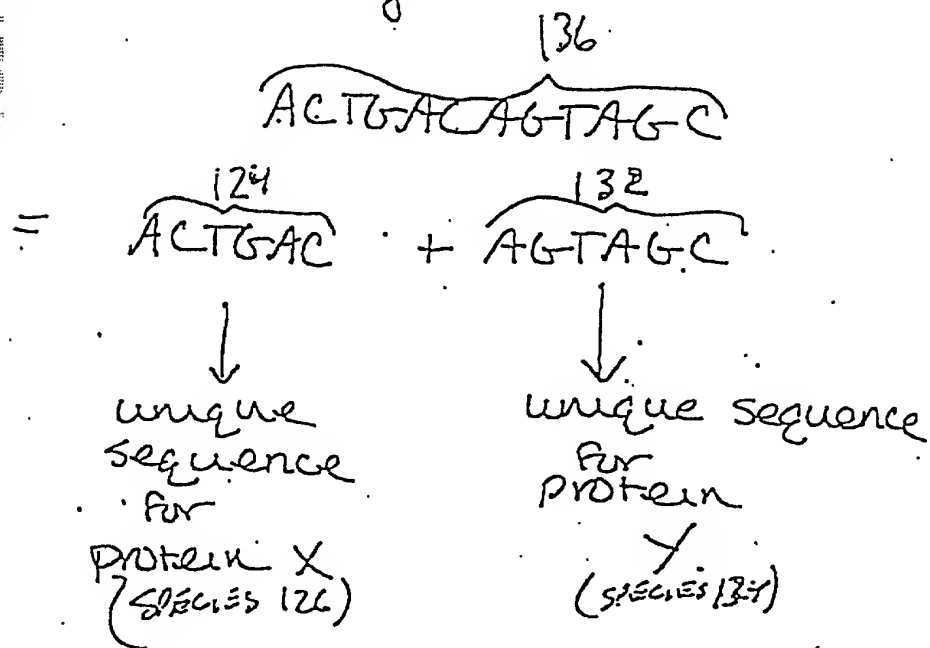
Fig. 13  
4#



1. Complementary DNA is denatured and sequenced.



2. Resulting sequence contains the unique DNA codes of the two binding partners,  $X + Y$ :



Protein X + Protein Y must be binding partners.

Tech: ACV  
File: negconbb.bin

Init E (V) = 0  
Final E (V) = 0.8  
Incr E (V) = 0.008  
Amplitude (V) = 0.025  
Frequency (Hz) = 10  
Sample Period (s) = 1  
Quiet Time (s) = 2  
Sensitivity (A/V) =  $1e-5$

◆ negconbb.bin  
— posconb.bin

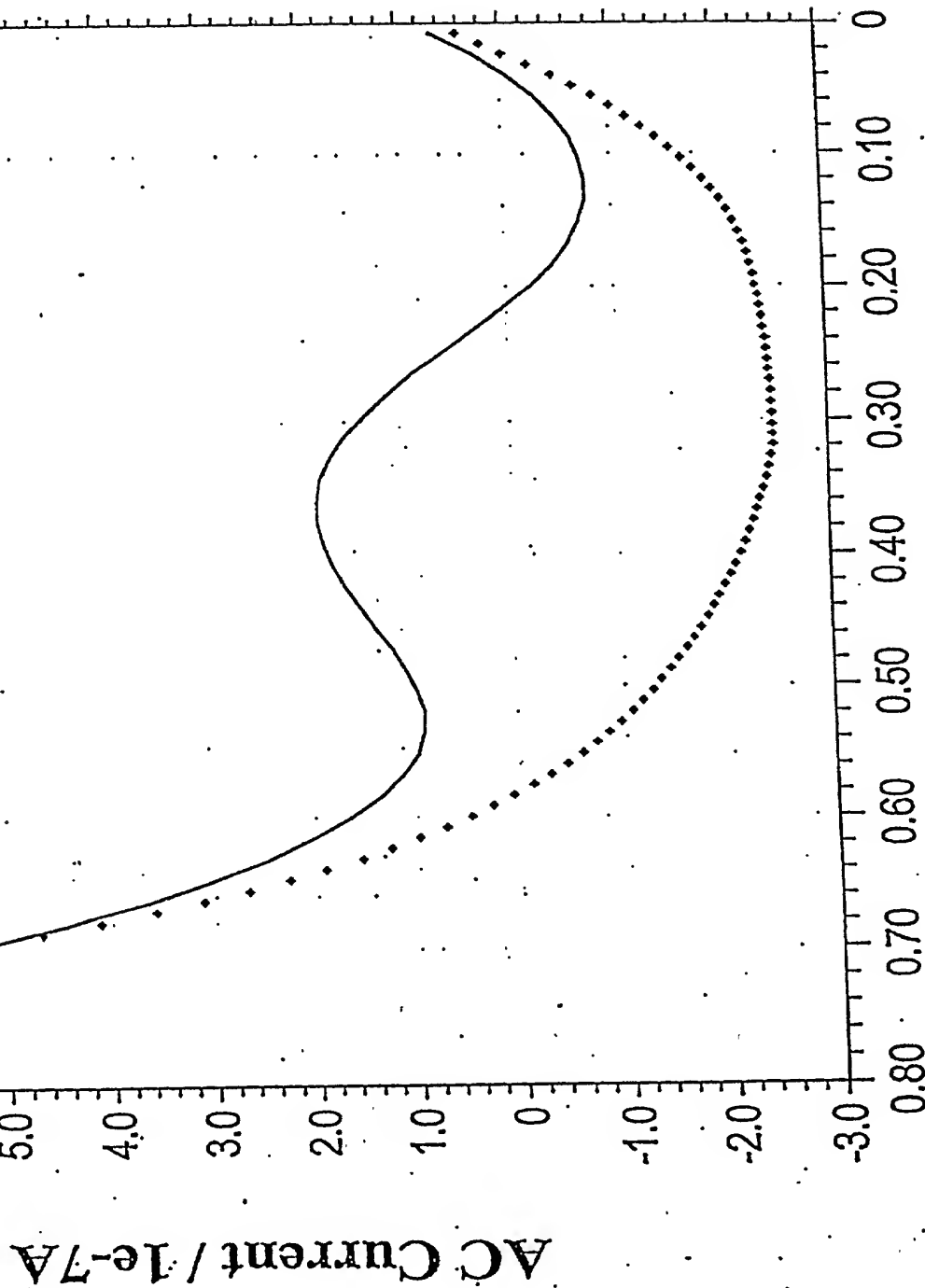


FIG. 16

Potential / V

~~Fig. 16~~  
~~Fig. 16~~

File: sb062\_007bb

Init E (V) = 0.1  
Final E (V) = 0.7  
Incr E (V) = 0.008  
Amplitude (V) = 0.025  
Frequency (Hz) = 10  
Sample Period (s) = 1  
Quiet Time (s) = 2  
Sensitivity (A/V) = 5e-4  
— sb062\_007bb  
○ sb062\_012bb.bin

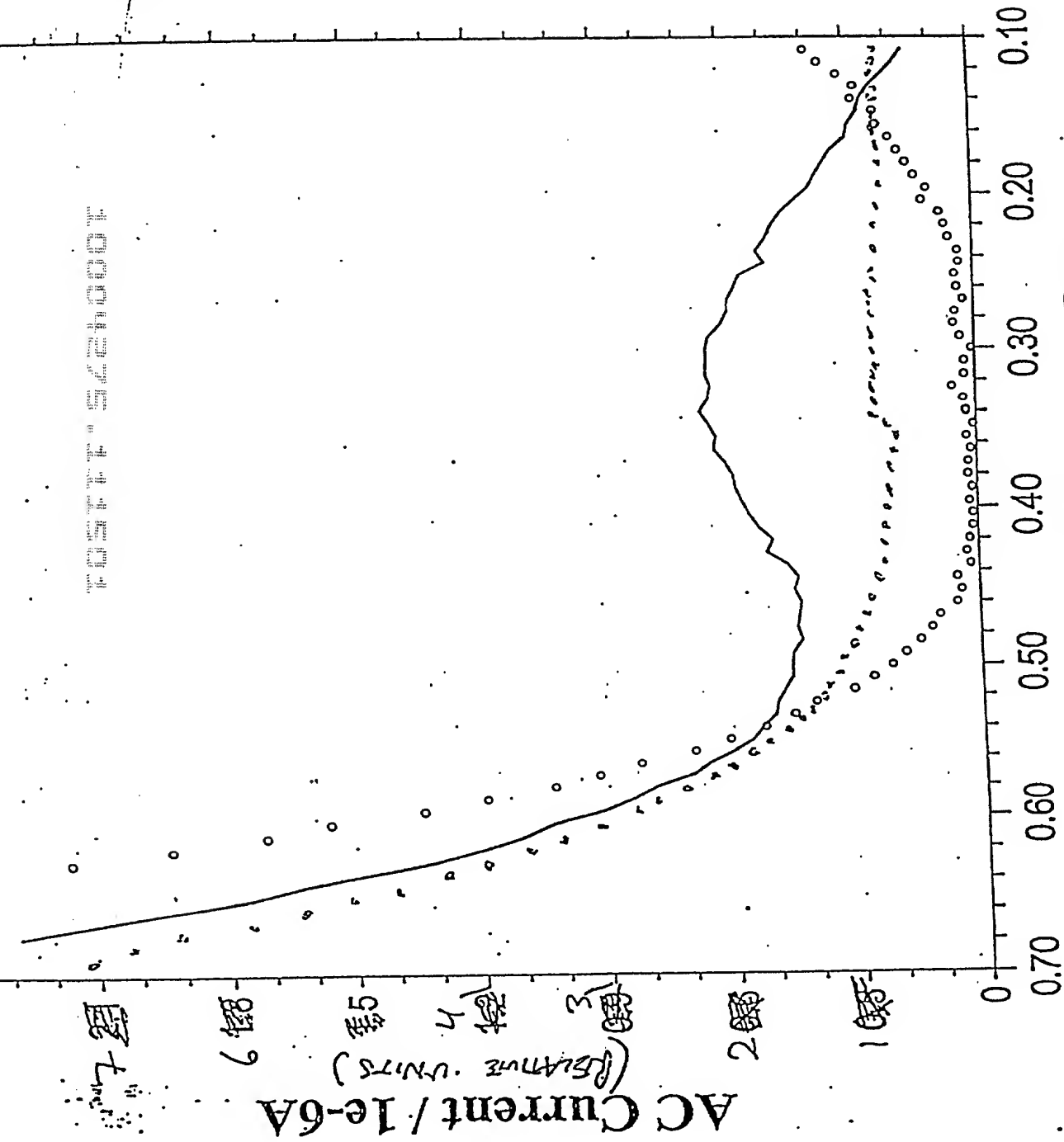


Fig. 17  
Potential / V

No.	Name	Age	Sex	Height (cm)	Weight (kg)	BMI (kg/m <sup>2</sup> )	Waist (cm)	Hip (cm)	Waist:Hip	Neck (cm)	Shoulder (cm)	Upper arm (cm)	Forearm (cm)	Hand (cm)	Finger (cm)	Palm (cm)	Palm width (cm)	Palm length (cm)	Palm area (cm <sup>2</sup> )	Palm perimeter (cm)	Palm volume (cm <sup>3</sup> )	Palm thickness (cm)	Palm width:height	Palm length:height	Palm area:height <sup>2</sup>	Palm perimeter:height	Palm volume:height <sup>3</sup>	Palm thickness:height	Palm width:weight	Palm length:weight	Palm area:weight	Palm perimeter:weight	Palm volume:weight	Palm thickness:weight	Palm width:age	Palm length:age	Palm area:age	Palm perimeter:age	Palm volume:age	Palm thickness:age	Palm width:age <sup>2</sup>	Palm length:age <sup>2</sup>	Palm area:age <sup>2</sup>	Palm perimeter:age <sup>2</sup>	Palm volume:age <sup>2</sup>	Palm thickness:age <sup>2</sup>	Palm width:age <sup>3</sup>	Palm length:age <sup>3</sup>	Palm area:age <sup>3</sup>	Palm perimeter:age <sup>3</sup>	Palm volume:age <sup>3</sup>	Palm thickness:age <sup>3</sup>	Palm width:age <sup>4</sup>	Palm length:age <sup>4</sup>	Palm area:age <sup>4</sup>	Palm perimeter:age <sup>4</sup>	Palm volume:age <sup>4</sup>	Palm thickness:age <sup>4</sup>	Palm width:age <sup>5</sup>	Palm length:age <sup>5</sup>	Palm area:age <sup>5</sup>	Palm perimeter:age <sup>5</sup>	Palm volume:age <sup>5</sup>	Palm thickness:age <sup>5</sup>	Palm width:age <sup>6</sup>	Palm length:age <sup>6</sup>	Palm area:age <sup>6</sup>	Palm perimeter:age <sup>6</sup>	Palm volume:age <sup>6</sup>	Palm thickness:age <sup>6</sup>	Palm width:age <sup>7</sup>	Palm length:age <sup>7</sup>	Palm area:age <sup>7</sup>	Palm perimeter:age <sup>7</sup>	Palm volume:age <sup>7</sup>	Palm thickness:age <sup>7</sup>	Palm width:age <sup>8</sup>	Palm length:age <sup>8</sup>	Palm area:age <sup>8</sup>	Palm perimeter:age <sup>8</sup>	Palm volume:age <sup>8</sup>	Palm thickness:age <sup>8</sup>	Palm width:age <sup>9</sup>	Palm length:age <sup>9</sup>	Palm area:age <sup>9</sup>	Palm perimeter:age <sup>9</sup>	Palm volume:age <sup>9</sup>	Palm thickness:age <sup>9</sup>	Palm width:age <sup>10</sup>	Palm length:age <sup>10</sup>	Palm area:age <sup>10</sup>	Palm perimeter:age <sup>10</sup>	Palm volume:age <sup>10</sup>	Palm thickness:age <sup>10</sup>	Palm width:age <sup>11</sup>	Palm length:age <sup>11</sup>	Palm area:age <sup>11</sup>	Palm perimeter:age <sup>11</sup>	Palm volume:age <sup>11</sup>	Palm thickness:age <sup>11</sup>	Palm width:age <sup>12</sup>	Palm length:age <sup>12</sup>	Palm area:age <sup>12</sup>	Palm perimeter:age <sup>12</sup>	Palm volume:age <sup>12</sup>	Palm thickness:age <sup>12</sup>	Palm width:age <sup>13</sup>	Palm length:age <sup>13</sup>	Palm area:age <sup>13</sup>	Palm perimeter:age <sup>13</sup>	Palm volume:age <sup>13</sup>	Palm thickness:age <sup>13</sup>	Palm width:age <sup>14</sup>	Palm length:age <sup>14</sup>	Palm area:age <sup>14</sup>	Palm perimeter:age <sup>14</sup>	Palm volume:age <sup>14</sup>	Palm thickness:age <sup>14</sup>	Palm width:age <sup>15</sup>	Palm length:age <sup>15</sup>	Palm area:age <sup>15</sup>	Palm perimeter:age <sup>15</sup>	Palm volume:age <sup>15</sup>	Palm thickness:age <sup>15</sup>	Palm width:age <sup>16</sup>	Palm length:age <sup>16</sup>	Palm area:age <sup>16</sup>	Palm perimeter:age <sup>16</sup>	Palm volume:age <sup>16</sup>	Palm thickness:age <sup>16</sup>	Palm width:age <sup>17</sup>	Palm length:age <sup>17</sup>	Palm area:age <sup>17</sup>	Palm perimeter:age <sup>17</sup>	Palm volume:age <sup>17</sup>	Palm thickness:age <sup>17</sup>	Palm width:age <sup>18</sup>	Palm length:age <sup>18</sup>	Palm area:age <sup>18</sup>	Palm perimeter:age <sup>18</sup>	Palm volume:age <sup>18</sup>	Palm thickness:age <sup>18</sup>	Palm width:age <sup>19</sup>	Palm length:age <sup>19</sup>	Palm area:age <sup>19</sup>	Palm perimeter:age <sup>19</sup>	Palm volume:age <sup>19</sup>	Palm thickness:age <sup>19</sup>	Palm width:age <sup>20</sup>	Palm length:age <sup>20</sup>	Palm area:age <sup>20</sup>	Palm perimeter:age <sup>20</sup>	Palm volume:age <sup>20</sup>	Palm thickness:age <sup>20</sup>	Palm width:age <sup>21</sup>	Palm length:age <sup>21</sup>	Palm area:age <sup>21</sup>	Palm perimeter:age <sup>21</sup>	Palm volume:age <sup>21</sup>	Palm thickness:age <sup>21</sup>	Palm width:age <sup>22</sup>	Palm length:age <sup>22</sup>	Palm area:age <sup>22</sup>	Palm perimeter:age <sup>22</sup>	Palm volume:age <sup>22</sup>	Palm thickness:age <sup>22</sup>	Palm width:age <sup>23</sup>	Palm length:age <sup>23</sup>	Palm area:age <sup>23</sup>	Palm perimeter:age <sup>23</sup>	Palm volume:age <sup>23</sup>	Palm thickness:age <sup>23</sup>	Palm width:age <sup>24</sup>	Palm length:age <sup>24</sup>	Palm area:age <sup>24</sup>	Palm perimeter:age <sup>24</sup>	Palm volume:age <sup>24</sup>	Palm thickness:age <sup>24</sup>	Palm width:age <sup>25</sup>	Palm length:age <sup>25</sup>	Palm area:age <sup>25</sup>	Palm perimeter:age <sup>25</sup>	Palm volume:age <sup>25</sup>	Palm thickness:age <sup>25</sup>	Palm width:age <sup>26</sup>	Palm length:age <sup>26</sup>	Palm area:age <sup>26</sup>	Palm perimeter:age <sup>26</sup>	Palm volume:age <sup>26</sup>	Palm thickness:age <sup>26</sup>	Palm width:age <sup>27</sup>	Palm length:age <sup>27</sup>	Palm area:age <sup>27</sup>	Palm perimeter:age <sup>27</sup>	Palm volume:age <sup>27</sup>	Palm thickness:age <sup>27</sup>	Palm width:age <sup>28</sup>	Palm length:age <sup>28</sup>	Palm area:age <sup>28</sup>	Palm perimeter:age <sup>28</sup>	Palm volume:age <sup>28</sup>	Palm thickness:age <sup>28</sup>	Palm width:age <sup>29</sup>	Palm length:age <sup>29</sup>	Palm area:age <sup>29</sup>	Palm perimeter:age <sup>29</sup>	Palm volume:age <sup>29</sup>	Palm thickness:age <sup>29</sup>	Palm width:age <sup>30</sup>	Palm length:
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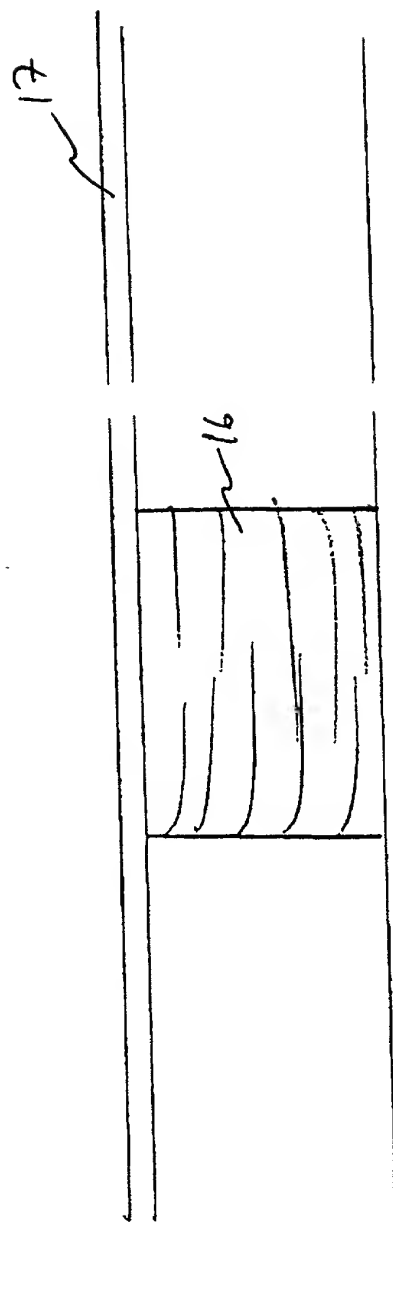
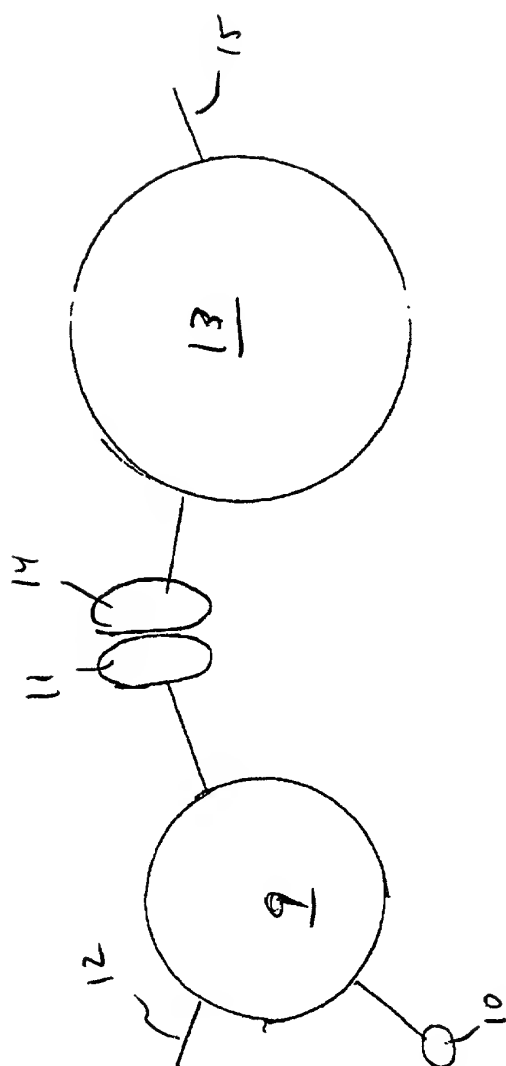
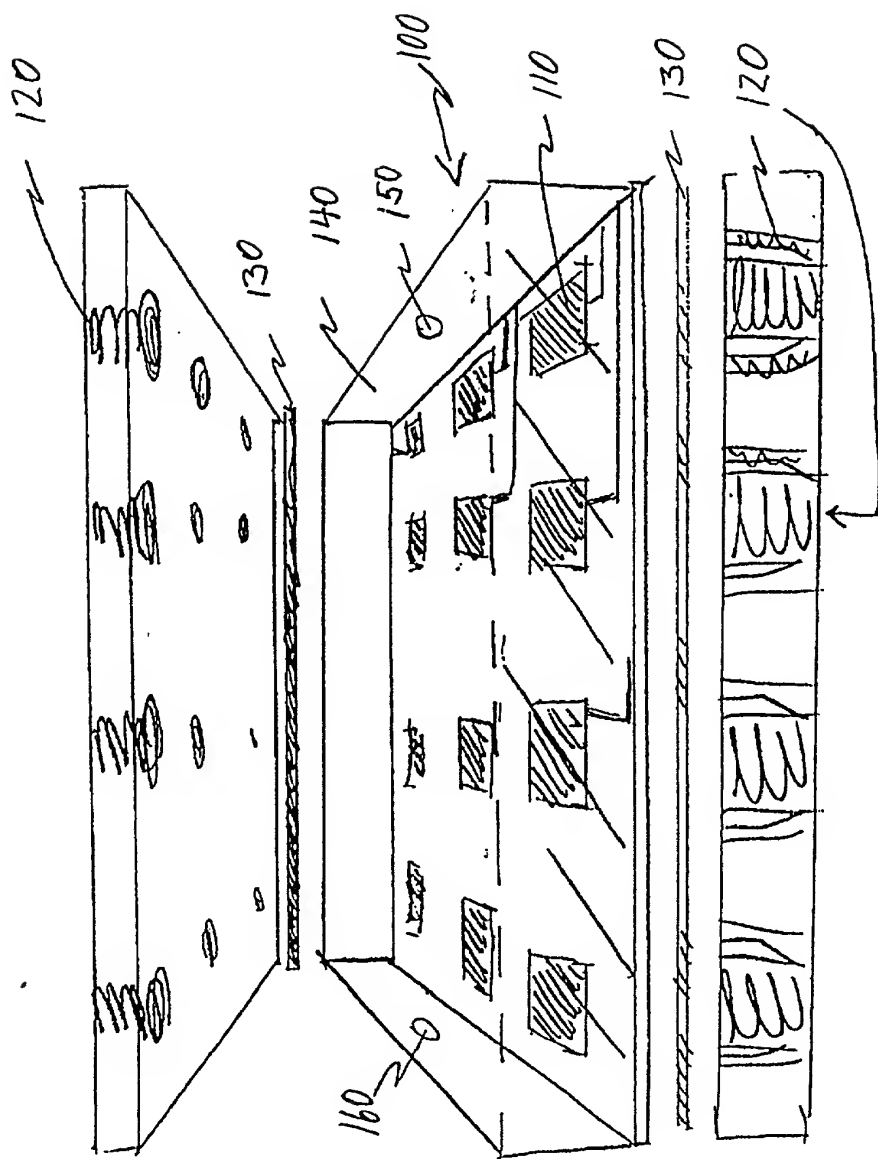


Fig. 18



~~Fig. 60-20~~

Fig. 19